Ontario Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

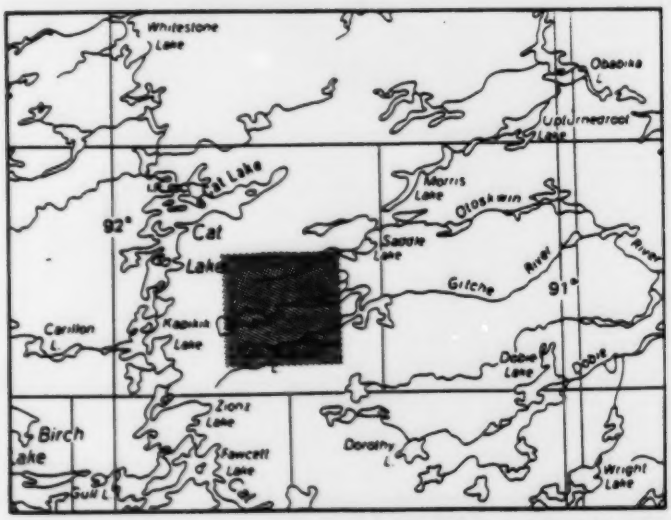
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 364

STOUGHTON LAKE AREA

DISTRICT OF KENORA
(PATRICIA PORTION)

Compiled by the Staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

NTS Number 520/12SE

Claim Map Number G2228

89-03495/

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

ONTARIO GEOLOGICAL SURVEY

1988: Stoughton Lake Area, District of Kenora, Patricia Portion; Ontario Geological Survey, Geological Data Inventory Folio 364; compiled by the staff of the Resident Geologist's Office, Sioux Lookout. Accompanied by 4 maps.

Original Compilation by: CATHARINE J. PROCTOR, MARTIN T. ROY, MARY O. ROY

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ABBREVIATIONS LIST

A.F.R.O. .....Assessment Files Research Office (Toronto)
Ann. Rept., (A.R.) .....Annual Report
A.R.I.P. .....Aggregate Resources Inventory Paper
Bull. .....Bulletin
C.I.M.M. .....Canadian Institute of Mining and Metallurgy
C.J.E.S. .....Canadian Journal of Earth Sciences
C.M.J. .....Canadian Mining Journal
Econ. Geol. .....Economic Geology
E.M.R. .....Department of Energy, Mines and Resources
E.P.B. .....Earth Physics Branch
G.A.C. .....Geological Association of Canada
GC .....Geological Circular
GDIF .....Geological Data Inventory Folio
Geol. .....Geology
Geol. Soc. Amer. Bull .....Geological Society of America Bulletin
GR .....Geoscience (Geological) Report
GSC .....Geological Survey of Canada
I.L.S.G. .....Institute on Lake Superior Geology
IMR .....Industrial Mineral Report
I.O.C. .....Report of the Iron Ore Committee (1923)
Jour. (or J) .....Journal
MDC .....Mineral Deposit Circular
M.D.I. (R) .....Mineral Deposit Inventory (Record)
Mem .....Memoir
MNDM .....Ministry of Northern Development and Mines
MNR .....Ministry of Natural Resources
M.P. .....Miscellaneous Paper
MRC .....Mineral Resources Circular
N.M.I. .....National Mineral Inventory
NOEGTS .....Northern Ontario Engineering Geology Terrain Study
NTS .....National Topographic System
O.B.M. .....Ontario Bureau of Mines
O.D.L.F. .....Ontario Department of Lands and Forests
ODM .....Ontario Department of Mines
ODMNA .....Ontario Department of Mines and Northern Affairs
OFR .....Open File Report
O.G.S. .....Ontario Geological Survey
P.R. .....Preliminary Report
Prelim. (or P) .....Preliminary
R.C. .....Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R. .....Source Mineral Deposit Record
Sum. Rept. .....Summary Report

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

For further information please contact:

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SIOUX LOOKOUT, ONTARIO
POV 2TO

(807) 737-2037, 2039

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	N/A	CJP
3	ODM General Index, 9 Volumes	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Thesis - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	NO	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (O G S)	YES	CJP
14	Author - Subject Articles File	NO	CJP
15	Miscellaneous Papers ODM & OGS	YES	CJP
16	ODM Geological Circulars OGS Study Series	NO	CJP
17	ODM Preliminary Reports ODM Bulletins	NO	CJP
18	ODM - OGS Open File Reports	YES	CJP
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	CJP
20	OGS Aggregate Resources Inventory Papers	NO	CJP
21	OGS Mineral Potential Maps	YES	CJP
22	Drill Core Library Catalogue	NO	CJP
23	**AERIAL PHOTOGRAPHS**	NO	CJP
24	**UNPUBLISHED THESES**	NO	CJP

STOUGHTON LAKE AREA

METALS AND MINERALS REFERENCES LIST

- △ anh ..... Anhydrite
- △ ank ..... Ankerite
- △ anna ..... Annabergite
- △ ap ..... Apatite
- △ arg ..... Argentite
- △ As ..... Arsenic
- △ asp ..... Arsenopyrite
- △ asb ..... Asbestos
- △ ba ..... Barite
- △ be ..... Beryl
- △ Bi ..... Bismuth
- △ bn ..... Bornite
- △ bran ..... Brannerite
- △ bruc ..... Brucite
- △ Cd ..... Cadmium
- △ calc ..... Calcite
- △ carb ..... Carbonate
- △ cel ..... Celestite
- △ cc ..... Chalcocite
- △ cp ..... Chalcopyrite
- △ ch ..... Chert
- △ clay ..... Clay
- △ Co ..... Cobalt
- △ cob ..... Cobaltite
- △ cb ..... Columbite
- ▲ Cu ..... Copper
- △ cor ..... Corundum
- △ dol ..... Dolomite
- △ ep ..... Epidote
- △ ery ..... Erythrite
- △ fel ..... Feldspar
- △ fl ..... Fluorite (flurospar)
- △ fu. ..... Fuchsite
- △ gn. ..... Galena
- △ gt. ..... Garnet
- △ goe ..... Goethite
- ▲ Au ..... Gold
- △ gf ..... Graphite
- △ gl ..... Gravel
- △ gyp ..... Gypsum
- △ hem ..... Hematite
- △ il ..... Ilmenite
- △ Fe ..... Iron
- △ IF ..... Iron Formation
- △ jas ..... Jasper
- △ kaol ..... Kaolinite (kaolin)
- △ ky ..... Kyanite
- △ Pb ..... Lead
- △ lim ..... Limonite
- △ Li ..... Lithium
- △ mgst ..... Magnesite
- △ mag ..... Magnetite
- △ mc ..... Malachite
- △ Mn ..... Manganese
- △ mb ..... Marble
- △ mar ..... Marcasite
- △ ma ..... Marl
- △ mi ..... Mica
- △ ml ..... Millerite
- △ mo ..... Molybdenite
- ▲ Mo ..... Molybdenum
- △ mon ..... Monazite
- △ ne .... Nephelite (nepheline)
- △ nc ..... Niccolite
- ▲ Ni ..... Nickel
- △ Nb ..... Niobium
- △ Pd ..... Palladium
- △ peat ..... Peat
- △ pent ..... Pentlandite
- △ Pt ..... Platinum
- △ py ..... Pyrite
- △ pyl ..... Pyrochlore
- △ pyrl ..... Pyrolusite
- △ po ..... Pyrrhotite
- △ q ..... Quartz
- △ qcv .. Quartz carbonate vein
- △ ra ..... Radioactive minerals
- △ RE ..... Rare Earths
- △ sd ..... Sand
- △ sgl ..... Sand and gravel
- △ ss ..... Sandstone
- △ scap ..... Scapolite
- △ shee ..... Scheelite
- △ serp ..... Serpentine
- △ sh ..... Shale
- △ sid ..... Siderite
- △ si ..... Silica
- ▲ Ag ..... Silver
- △ sl ..... Slate
- △ sm ..... Smaltite
- △ sod ..... Sodalite
- △ spec ..... Specularite
- △ sp ..... Sphalerite
- △ spd ..... Spodumene
- △ staur ..... Staurolite
- △ stib ..... Stibnite
- △ st ..... Stone
- △ s ..... Sulphides
- △ talc ..... Talc
- △ Te ..... Tellurium
- △ td ..... Tetrahedrite
- △ th ..... Thorite
- △ Th ..... Thorium
- △ thuc ..... Thucholite
- △ ti ..... Titanite
- △ Ti ..... Titanium
- △ tour ..... Tourmaline
- △ trap ..... Trap rock
- △ W ..... Tungsten
- △ uran ..... Uraninite
- △ U ..... Uranium
- △ verm ..... Vermiculite
- △ Y ..... Yttrium
- △ Zn ..... Zinc
- △ zr ..... Zircon

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	LANG LAKE (LANG LAKE-BOCHAWNA)	Cu Au Ag Mo Ni	KP0263	MRC 12 p. 178-179	Au Ag Mo Ni-Minor Occurences NMI File, 52012 Cu01 SMDR File, #00505

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
(see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
Ref. No. on Map	COMPANY/AUTHOR (file number)																			
1	COMINCO LTD (52O/11SW-0020)								77											
2	HANNA MINING C. (52O/11SW-0023)											70								
3	UTAH MINES L. (52O/11SW-0028)								85	85										
4	HANNA MINING C. (52O/11SW-0029)	72										72	72							
5	HANNA MINING C. (52O/11SW-0035)												71							
6	MEXTOR MINERALS LTD (52O/12NE-0011)											69	69							
7	CASTLEBAR S. & COBALT SULMAC EXPL. SERVICES L. (52O/12SE-0010-A1)				59	59														
8	CASTLEBAR S. & COBALT SULMAC EXPL. SERVICES L. (52O/12SE-0010-B1)				59	59														

STOUGHTON LAKE AREA

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING. STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS. NOTES. CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
9	CASTLEBAR S. & COBALT SULMAC EXPL. SERVICES L. (52O/12SE-0010-C1)				59	59														
10	HANNA MINING C. (52O/12SE-0010-E1)				71															
11	HANNA MINING C. (52O/12SE-0011-A1)				71															
12	HANNA MINING C. (52O/12SE-0011-B1)				71															
13	BOCHAWNA COPPER MINES L. HANNA MINING C. (52O/12SE-0012)				68-71															
14	ALGOMA STEEL CORP L. (52O/12SE-0013)				68-71															
15	INITIATIVE EXPL. L. BOHME, JDS (52O/12SE-0014-A1)												71							
16	INITIATIVE EXPLS. L. BOHME, JDS (52O/12SE-0014-B1)											71								

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
17	HANNA MINING C. BOHME, JDS (52O/12SE-0015)												70							
18	HANNA MINING C. MACMILLAN, JD, LM (52O/12SE-0016)											70								
19	ALGOMA STEEL CORP L. (52O/12SE-0017)	70																		
20	BOCHAWNA COPPER MINES L. (52O/12SE-0018-A1)												69							
21	ALGOMA STEEL CORP. L. (520/12SE-0018-B1)											67								
22	BOCHAWNA COPPER MS L (520/12SE-0019)					68/ 69														
23	ALGOMA STEEL CORP L (520/12SE-0020-A1)												67							
24	ALGOMA STEEL CORP L (520/12SE-0021-A1)											67								
25	INITIATIVE EXPLS L (520/12SE-0021-B1)							72												

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
26	INITIATIVE EXPLS L (520/12SE-0022-A1)							71												
27	BOCHWANA COPPER MINES L BOLAND, C L MADSEN RED LAKE G MS (520/12SE-0023)							68												
28	ST JOE CANADA INC (520/06SE-0042)								86	86										
29	LOCATOR EXPLS L DURATION MINES L (520/11SW-0043)								86	86										
30	BELORE MINES L (520/11SW-0010-A1)				70															

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	SULMAC EXPL SERVICES L	3	1959	0	-45	7.0	336.0	py,po,cp	Au,Cu,Ni, Zn
2		4	1959	0	-45	7.0	316.0	mag,py,po	Au,Cu,Ni, Zn
3		1	1959	0	-43	4.0	287.0	py	Au,Cu
4		2	1959	0	-45	37.0	306.0	py	Au,Cu,Ni, Zn
5	HANNA MINING COMPANY	71-33	1971	0	-50.5	48.0	406.0	gf,mag,py,po	--
6		71-34	1971	180	-49	15.0	356.0	py,po,mag	--
7		M-1	1971	0	-50	18.0	404.0	py,po	--
8	BOCHWANA COPPER MINES L (HANNA MINING COMPANY)	BC-1-68	1968	186	-45	4.0	554.0	py,cp,po	Ag,Cu,Mo
8		BC-2-68	1968	180	-45	12.0	797.0	py,po,mo,cp, mag	Ag,Cu,Mo
8		BC-3-68	1968	180	-60	6.0	598.0	py,cp,mo	Ag,Cu,Mo
9		BC-4-68	1968	180	-45	7.0	803.0	mag,cp,po,py, mo	Ag,Cu,Mo
9		BC-14-69	1969	--	--	29.0	320.0	--	Cu
9		70-18	1970	180	-40	43.0	503.0	py,cp,mo	--
10		BC-5-68	1968	180	-45	23.0	525.0	py,cp	Ag,Cu,Mo
10		BC-15-69	1969	--	-45	25.0	431.0	--	Cu

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
10	BOCHWANA COPPER MINES L (HANNA MINING COMPANY)	70-17	1970	0	-40	25.0	511.0	py,cp,mo	--
11		BC-7-68	1968	180	-45	16.5	1107.0	py,cp,po,mo, mag	Ag,Cu,Mo
11		BC-8-68	1968	--	--	14.0	295.0	py,mo,cp	Ag,Cu,Mo
12		70-23	1970	0	-40	36.0	506.0	py,cp,mo	--
13		70-24	1970	0	-40	45.0	508.0	py,cp	--
14		71-25	1971	0	-50	16.0	501.0	py,mag	--
15		71-32	--	--	--	--	602.0	--	--
15		BC-9-69	1969	180	-45	32.0	433.5	mo,cp	--
16		BC-6-68	1968	180	-45	33.0	800.0	py,cp,po	--
16	(not plotted)	BC-16-69	1969	180	-45	47.0	397.0	py,cp	--
17		70-19	1970	0	-40	65.0	502.0	py,cp	--
18		70-20	1970	0	-40	51.0	501.0	py,	--
19		70-21	1970	180	-39	30.0	502.0	po,py,cp,gt, sp	--
20		70-22	1970	0	-40	34.0	498.0	py,cp	--
21		71-27	1971	--	-50	21.5	605.0	py,po,cp	--

● ——— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
22	BOCHWANA COPPER MS L (HANNA MINING COMPANY)	71-28	1971	0	-40°30'	62.0	600.0	py,po,gt,mag	--
23		71-31	1971	180	-46°30'	10.0	403.0	py	--
24		BC-10-69	1969	197	-45	44.0	1101.0	py,cp	Cu
25		BC-11-69	1969	--	-45	31.0	472.0	--	Cu
26		BC-13-69	1969	--	-45	2.0	522.0	--	Cu,Ag,Mo, Au
27		BC-12-69	1969	180	-45	69.0	496.0	--	--
28		71-26	1971	360	-50	6.0	502.0	py,cp,mo	--
29		71-29	1971	310	-50	20.0	500.0	py	--
30		71-30	1971	310	-46°30'	46.0	506.0	py,po	--
31	ALGOMA STEEL C	LL-1-68	1968	180	-45	12.0	56.0	--	--
32		LL-2-68	1968	158	-45	17.0	108.0	mag	--
33		LL-3-68	1968	360	-45	23.0	50.0	mag	--
34		LL-4-68	1968	360	-45	25.0	103.0	mag,py,po	--
35		LL-5-68	1968	180	-45	--	119.0	py,po	--
36		LL-6-69	1969	360	-45	--	200.0	py,asp,cp	--
36		LL-7-69	1969	180	-45	--	193.0	py	--

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
37	ALGOMA STEEL C	LL-8-69	1969	330	-45	--	175.0	mag,py	--
37		LL-9-69	1969	180	-45	8.0	175.0	mag,py	--
38		LL-10-69	1969	180	-45	11.0	163.0	mag	--
38		LL-11-69	1969	360	-45	12.0	115.0	--	--
39		LL-12-70	1970	360	-45	16.0	30.0	mag,fe	--
39		LL-13-70	1970	360	-45	25.0	150.0	py,po,mag	--
39		LL-14-70	1970	180	-45	17.5	150.0	mag,py,po	--
39		LL-15-70	1970	180	-45	15.0	27.0	mag,py	--
39		LL-16-70	1970	180	-45	15.0	105.0	mag,po,py	--
40		LL-17-70	1970	180	-45	12.5	150.0	mag,py,po	--
41		LL-18-70	1970	180	-45	12.0	32.0	--	--
41		LL-19-70	1970	180	-45	13.5	149.0	py,po,mag	--
41		LL-20-70	1970	180	-45	13.0	33.0	py	--
42		LL-21-71	1971	180	-45	9.0	398.0	py,po,mag	--
43		LL-22-71	1971	135	-45	51.0	51.0	lost casing	--
43		LL-23-71	1971	135	-45	51.0	363.0	py	--
44		LL-24-71	1971	135	-45	13.0	563.0	py	--
45	BELORE MINES	4	1970	190	-50	22.0	286.0	py,po	--

● —— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	BY: QUESTOR SURVEYS L FOR: COMINCO L YEAR: 1977	MAGNETOMETER	400'	E/W	660.0'
3	BY: DIGHEM SURVEYS & PROCESSING INC FOR: UTAH MINES L YEAR: 1985	MAGNETOMETER AND ELECTROMAGNETIC	65m	N/S	100.0m
28	BY: QUESTOR SURVEYS L FOR: ST JOE CANADA YEAR: 1986	MAGNETOMETER AND ELECTROMAGNETIC	90m	--	100.0m
29	BY: AERODAT L FOR: LOCATOR EXPLS L YEAR: 1986	MAGNETOMETER AND ELECTROMAGNETIC	60m	N/S	50m

STOUGHTON LAKE AREA

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
NO DATA AS OF JANUARY 1988				

STOUGHTON LAKE AREA

GEOCHRONOLOGY DATA - AGE DATING

Site	Method	Material	Reference	Result
NO DATA AS OF JANUARY 1988				

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist's office:

(a) Aerial Photographs:

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50,000	1976	CAT LAKE 520/12	SURVEYS & MAPPING BRANCH, DEPT. OF MINES & RESOURCES
1:250,000	1964	LAKE ST JOSEPH 52-0	SURVEYS & MAPPING BRANCH, DEPT. OF MINES AND TECHNICAL SURVEYS

STOUGHTON LAKE AREA

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
NO DATA AS OF JANUARY 1988			

ODM GENERAL INDEX SEARCH

Words searched: BERTRAND LAKE, BLACKPELT LAKE, BOCHWANA, ULL LAKE, BOYES LAKE, BRIGGS LAKE & CREEK, BOWEN LAKE, MCVICAR LAKE, GITCHIE LAKE, SADDLE CREEK, LANG LAKE, STOUGHTON LAKE

Index Volume	Listing:	Report Volume	Part	Page
III	PICKLE LAKE-CROW RIVER AREA DISTRICT OF KENORA (PATRICIA PORTION)	XXXIX	3	4,5,7-18,21
8	MP23			6,8,9
8	MP32			7,9
8	MP47			33,35
8	MP49			23
8	MP53			34
8	MRC 11			227
8	MRC 12			178-179

STOUGHTON LAKE AREA

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
O.D.M.	1930	SHONIA LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), ONTARIO	MAP 39d	1"=1 MILE 1:63,360
O.D.M.	1970	ONTARIO GEOLOGICAL MAP, WEST CENTRAL SHEET	MAP 2199	1"=16 MILES 1:1,013,760
O.D.M.	1974	CAT LAKE-PICKLE LAKE, GEOLOGICAL COMPILATION SERIES, KENORA AND THUNDER BAY DISTRICTS	MAP 2218	1"=4 MILES 1:253,440
O.D.M.	1970	LANG-CANNON LAKES AREA (CENTRAL PART) DISTRICT OF KENORA (PATRICIA PORTION) GEOLOGICAL SERIES PRELIMINARY MAP P.665	P.665	1"=½ MILE
O.D.M.	1970	LANG-CANNON LAKES AREA (WEST HALF) DISTRICT OF KENORA (PATRICIA PORTION), GEOLOGICAL SERIES PRELIMINARY MAP P.581	P.581	1"=½ MILE
SADO, E.V. CARSWELL, B.F.	1987	SURFICIAL GEOLOGY OF NORTHERN ONTARIO, ONTARIO GEOLOGICAL SURVEY MAP 2518	MAP 2518	1:200,000
SAGE, R.P. BREAKS, F.W. TROUP, W.R.	1973	OPERATION PICKLE LAKE, BAMAJI LAKE-LAKE ST. JOSEPH SHEET, DISTRICT OF KENORA, (PATRICIA PORTION) O.D.M. PRELIMINARY MAP P.808, GEOLOGICAL SERIES	P.808	1"=2 MILES
ROBERTSON, JAMES A. VOS, M.A. SPRINGER, JANET S.	1976	MINERAL POTENTIAL MAP OF ONTARIO, 1976, WEST CENTRAL SHEET, O.D.M., PRELIMINARY MAP P.1098 MINERAL DEPOSITS SERIES	P.1098	1"=16 MILES 1:1,013,760
MEYN, H.D. HOWARTH, J.R.	1977	MOLYBDENUM DEPOSITS OF ONTARIO, WEST CENTRAL SHEET, DISTRICTS OF KENORA, THUNDER BAY, ALGOMA AND COCHRANE, O.G.S. PRELIMINARY MAP P.1245, MINERAL DEPOSITS SERIES	P.1245	1"=16 MILES 1:1,013,760

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
SPRINGER, JANET	1978	ONTARIO MINERAL POTENTIAL, LAKE ST JOSEPH SHEET, DISTRICTS OF THUNDER BAY AND KENORA (PATRICIA PORTION), ONTARIO GEOLOGICAL SURVEY, PRELIMINARY MAP P.1542, MINERAL DEPOSITS SERIES	P.1542	1:250,000
PANAGAPKO, D A GIBSON, J C	1980	STOUGHTON LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), ONTARIO GEOLOGICAL SURVEY PRELIMINARY MAP P.2077, RED LAKE DATA SERIES	P.2077	1"=¼ MILE 1:15,840
O.G.S.	1986	AIRBORNE ELECTROMAGNETIC AND TOTAL INTENSITY MAGNETIC SURVEY, PICKLE LAKE AREA, DISTRICT OF KENORA (PATRICIA PORTION), ONTARIO, BY GEOTERREX LTD, FOR THE ONTARIO GEOLOGICAL SURVEY, GEOPHYSICAL GEOCHEMICAL SERIES, MAP 80894	MAP 80894	1:20,000
SAGE, R P BREAKS, F W	1982	GEOLOGY OF THE CAT LAKE - PICKLE LAKE AREA, DISTRICT OF KENORA AND THUNDER BAY, ONTARIO GEOLOGICAL SURVEY, REPORT 207, 238p, ACCOMPANIED BY MAP 2218	REPORT 207 MAP 2218	1:253,440
SAGE, R P BREAKS, F W	1976	OPERATION PICKLE LAKE, DISTRICT OF KENORA, (PATRICIA PORTION) AND THUNDER BAY, O.D.M. OPEN FILE REPORT 5180, 531p.	OFR 5180	
G.S.C.	1963	GEOCHEMISTRY-COPPER IN BEDROCK, LAKE ST JOSEPH SHEET, KENORA AND THUNDER BAY DISTRICTS, ONTARIO	MAP 50-1963	1:253,440
RILEY, R A	1969	RED LAKE DISTRICT-NEW INFORMATION LANG LAKE AREA, ANNUAL REPORT OF RESIDENT GEOLOGISTS SECTION, MP 23	MP 23	p.6

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
RILEY, R A	1970	RED LAKE DISTRICT, ANNUAL REPORT OF RESIDENT GEOLOGISTS SECTION, MP 33	MP 33	
FENWICK, K G	1970	LANG-CANNON LAKES AREA, DISTRICT OF KENORA (PATRICIA PORTION) IN SUMMARY OF FIELD WORK BY THE GEOLOGICAL BRANCH, MP 43	MP 43	pp.18-21
RILEY, R A KING, H L KUSTRA, C R	1971	MINERAL EXPLORATION TARGETS IN NORTHWESTERN ONTARIO, MISCELLANEOUS PAPER 47	MP 47	
FENWICK, K G SRIVASTRAVA, P	1971	LANG-CANNON LAKES AREA, DISTRICT OF KENORA (PATRICIA PORTION) IN SUMMARY OF FIELD WORK BY THE GEOLOGICAL BRANCH, MISCELLANEOUS PAPER 49	MP 49	
SAGE, R P BREAKS, F W TROUP, W R	1972	OPERATION PICKLE LAKE, DISTRICT OF KENORA (PATRICIA PORTION) pp.23-37 IN SUMMARY OF FIELD WORK 1972 BY THE GEOLOGICAL BRANCH, ONTARIO DIVISION OF MINES, MP 53, 165p.	MP 53	pp.23-37
FINDLEY, D J AYRES, L D	1977	LANG LAKE-AN EARLY PRECAMBRIAN PORPHYRY COPPER-MOLYBDENUM DEPOSIT IN NORTHWESTERN ONTARIO, GEOLOGICAL SURVEY OF CANADA, REPORT OF ACTIVITIES, PAPER 77-1B, OTTAWA	GSC PAPER 17-1B	pp.25-38
EMSLIE, R F	1960	GEOLOGY OF RED LAKE ST JOSEPH, KENORA AND THUNDER BAY DISTRICTS OF ONTARIO, GEOLOGICAL SURVEY OF CANADA	MAP 51-1960	1"=4 MILES 1:253,440
DUFFEL, S MACLAREN, A S HOLMAN, R H C	1963	RED LAKE-LANSDOWNE HOUSE AREA, NORTHWESTERN ONTARIO, BEDROCK GEOLOGY, GEOPHYSICAL AND GEOCHEMICAL INVESTIGATIONS, GEOLOGICAL SURVEY OF CANADA	PAPER 63-5 MAP 2-1963 MAP 3-1963	1"=8 MILES 1:506,880

NOTES AND ADDENDA

51°37'30"

91°45'00"

Saddle

Creek

Briggs L.

Briggs

Creek

Bowen L.

River

Blackpell L.

Bertrand

Bertrand Lake

Long

Lul

So

15

14

13

17,18

19

51°37'30"

91°30'00"

Creek

Boyes Lake

Briggs L.

Briggs Lake

Creek

Long Lake

Bowen L.

River

Blackpell L.

Lull Lake

Sor Creek

Sor Lake

McVicar L.

Cr.

River

15 19 14 15 19 14 19 19 14 19 13 17,18 13 17,18 17,18 36

Ministry of Northern Development and Mines

Ontario

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 364

(Map 1 of 4)

STOUGHTON LAKE AREA

DISTRICT OF KENORA
(PATRICIA PORTION)

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ 1/6 Reference number is always inside work area outlined. See listing in text pages.

□ x 4 Small area of exploration

Bowen L.

River

Blackpell L.

Berlrand

Berlrand Lake

Lang

Lull

So

Gli

River

Glicho

Glicho Lake

91°45'00"

Lang

Bowen L.

River

Blackpell L.

17,18

Lull Lake

Creek

Sor Lake

McVicar L.

Sor Cr.

River

28

Gliche

River

Gliche

Sloughton Lake

Sloughton Creek

28

28

91°30'00"

EXPLORATION DATA FILE AREAS

- ■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.
- □ x ④ Small area of exploration
- □ ★ File covers whole township or area
- ■ ② Oval delineates area of drilling

51°37'30"

91°45'00"

Saddle

Creek

Briggs L.

Briggs

Creek

Bowen L.

River

Blackpell L.

Berlrand

Berlrand Lake

Lang

Sor

Lull Lake

6

16

18

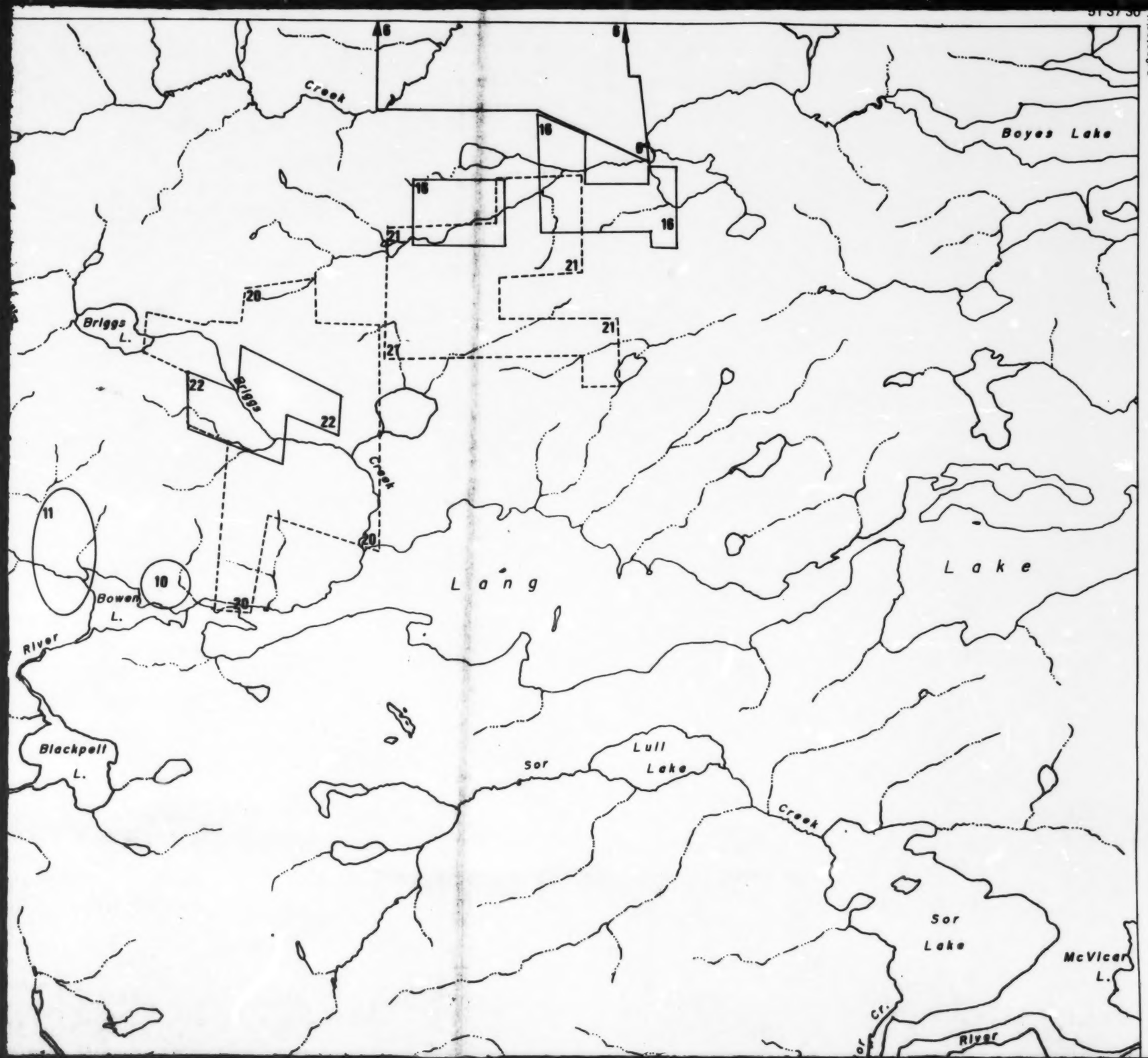
21

20

22

11

10



Ministry of Northern Development and Mines

Mines and Minerals Division

Ontario

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 364

(Map 2 of 4)

STOUGHTON LAKE AREA

DISTRICT OF KENORA
(PATRICIA PORTION)

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

Reference number is always inside work area outlined. See listing in text pages.

Small area of exploration

Bertrand Lake

Bertrand River

Blackpell L.

Sor

Lull Lake

Glicho River

Glicho Lake

91°45'00"

51°30'00"

Blackpell L.

Sor Lull Lake

Creek

Sor Lake

McVicar L.

Sor Cr.

River

Glicho

River

Sloughton Lake

Sloughton Creek

61°30'00"

51°30'00"

EXPLORATION DATA FILE AREAS

■ /① \⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

□ ★ File covers whole township or area

■ ② Oval delineates area of drilling.

91°45

Saddle

Creek

26,26

8

7

26,26

25,26

23

Briggs L.

3

27

24

23

24

Briggs

2,5

Creek

27

27

Long

Bowen L.

River

Blackpelt L.

2,5

Lake

1

Bertrand

3

Bertrand Lake

Ontario Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 364

(Map 3 of 4)

STOUGHTON LAKE AREA

DISTRICT OF KENORA
(PATRICIA PORTION)

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

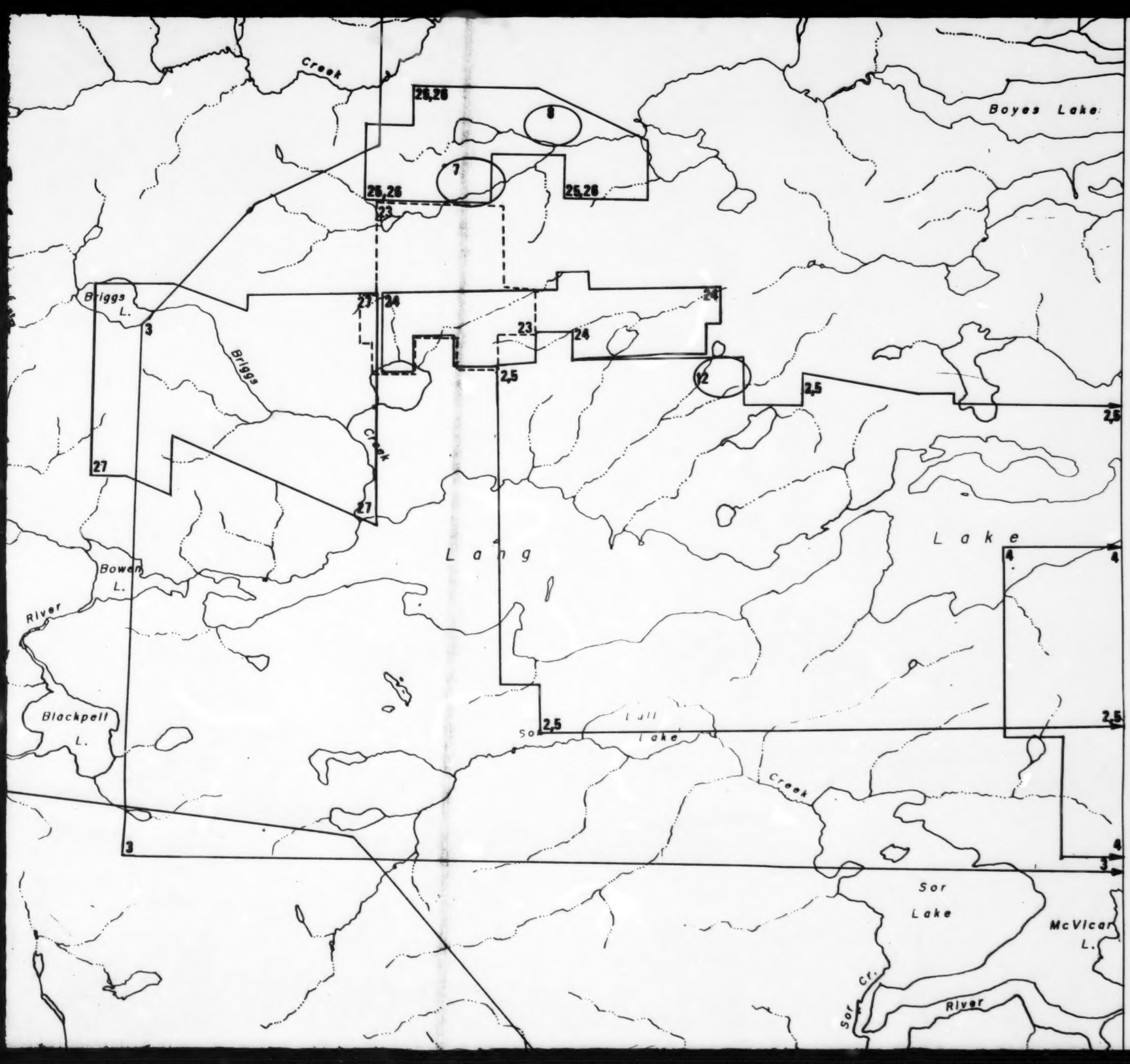
Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

■ /① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

□ ★ File covers whole township or area



Blackpell

1

2.5

3

Berirand Lake

Gitche

Gitche Lake

91°45'00"

51°30'00"

Blackpell L.

Lull Lake

Creek

Sor Lake

McVicar L.

Sor Cr.

River

Glicho

River

Glicho

Sloughton Lake

Sloughton Creek

2.5

3

4

1

51°30'00"

91°30'00"

EXPLORATION DATA FILE AREAS

- ■ ① ⑥ — Reference number is always inside work area outlined. See listing in text pages.
- □ x ④ — Small area of exploration
- □ ★ — File covers whole township or area
- ■ ② — Oval delineates area of drilling.

Area of geochemical sampling, with reference number

Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

Saddle Creek

Saddle Creek

Boyes Cr

Boyes Lake

Briggs Lake

Creek

Long Lake

Bowen Lake

R.

Bertrand

Blackpelt Lake

Bertrand River

Bertrand Lake

Sor Lull Lake

Creek

Sor Lake

Mc Vicor L.

Sor Cr.

River

Gitche

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 364

(Map 4 of 4)

STOUGHTON LAKE AREA

DISTRICT OF KENORA
(PATRICIA PORTION)

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- ◎ — Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number

☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)

☐ R — Resistivity anomaly

☐ GR — Gravity anomaly

MISCELLANEOUS DATA

■ Trenching, pit

☐ Adit

☐ Open pit

☐ Rock quarry

☐ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

Bertrand

Blackpelt Lake

Bertrand River

Bertrand Lake

Lull Lake

Sor

Creek

Sor Lake

Cr.

Sor

River

Gitche

River

Gitche

Stoughton

Lake

Gitche Lake

Stoughton

Blockpelt Lake

Lull Lake

Sor Creek

Sor Lake

Mc Vicar L

AEM AM

Sor Cr.

River

Gitche River

Stoughton Lake

Stoughton Creek

51° 30' 00"

91° 30' 00"

- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number